

Appl. No. 10080,070  
Amend. Dated January 7, 2004  
Reply to Office action of October 10, 2003

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A discharge lamp comprising:  
an envelope;  
a discharge-sustaining fill sealed inside the envelope;  
first and second electrodes for providing a discharge, at least the first electrode  
5 including a current carrying wire and a coil including:  
a first coiled structure formed by winding a overwind wire around a  
first cylindrical member,  
a second coiled structure formed by winding the first coiled structure  
around a second cylindrical member without appreciable overlapping of the  
10 coils, the second coiled structure having at least 80 turns per inch,  
a third coiled structure formed by winding the second coiled structure  
around a third cylindrical member, the third cylindrical member having a  
diameter of at least 1.2 mm, and  
an emitter material deposited on the coil, the amount of emitter material being at least  
15 9-16 mg per 11.5 mm length of the coil.
2. (Cancelled).
3. (Currently Amended) The discharge lamp of claim [[2]] 1, wherein the third  
cylindrical member has a diameter of at least 1.2-1.5mm.
4. (Cancelled).
5. (Currently Amended) The discharge lamp of claim [[4]] 1, wherein the second  
coiled structure has at least 85 turns per inch.
6. (Original) The discharge lamp of claim 1, wherein the third coiled  
structure is at least 10mm in length.
7. (Original) The discharge lamp of claim 6, wherein the third coiled  
structure is 11-12 mm in length and the lamp is a T8 lamp.
8. (Original) The discharge lamp of claim 1, wherein the emitter material  
comprises an oxide selected from the group consisting of barium, strontium, calcium,

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zirconium, and combinations thereof.

9-11. (Cancelled).

12. (Previously Amended) The discharge lamp of claim 1, wherein the second coiled structure has at least 90 turns per inch.

13. (Previously Amended) The discharge lamp of claim 1, wherein the secondary coil is about 30 mm in length.

14. (Previously Amended) A discharge lamp comprising:

an envelope;

a discharge-sustaining fill sealed inside the envelope;

first and second electrodes for providing a discharge, at least the first electrode

5 including a current carrying wire and a coil including:

a first coiled structure formed by winding a overwind wire around a first cylindrical member,

10 a second coiled structure formed by winding the first coiled structure around a second cylindrical member, the second coiled structure having at least 80 turns per inch,

a third coiled structure formed by winding the second coiled structure around a third cylindrical member, and

an emitter material deposited on the coil, the amount of emitter material being 10-15mg/30 mm length of secondary coil.

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15. (Currently Amended) A method for forming a coil for a fluorescent lamp, the method comprising:

winding a wire around a first cylindrical member and a current carrying wire to form a first coiled structure;

5 winding the first coiled structure around a second cylindrical member, without appreciable overlapping of coils, to form a second coiled structure having 80-130 turns per inch; and

winding the second coiled structure around a third cylindrical member to form a third coiled structure, the third structure having a diameter of at least 1 mm; and

10 coating the third coiled structure with an emitter mix which, when activated, emits electrons when heated, the amount of emitter material being 10-15mg/30 mm length of secondary coil.

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